## MARKED UP CLAIMS

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2	(First Amended) 72. A process for treating wood having wood cellulose
3	having a plurality of hydroxyl groups comprising the steps of:
4	providing a solution consisting essentially of a non-water-based
5	hydrophilic organic solvent and a solute having a functional group comprising an atom
6	selected from the group consisting of trivalent, tetravalent and pentavalent atoms and
7	combinations thereof, wherein said atom is bonded to [a halogen atom or] a functional group
8	selected from the group consisting of a halogen atom hydroxyl group, alkoxy group, phenoxy
9	group, benzyloxy group and an aryloxy group having a polycyclic aromatic ring and
10	combinations thereof,
11	applying said solution to the wood cellulose,
12	covalently reacting said functional groups upon said applying to said
13	wood.
14	(First Amended) 73. The process according to claim [72] 76 further
15	comprising the steps of simultaneous reaction and diffusion of the monomers in the wood.
16	(First Amended) 90. The process of claim 85 wherein the catalyst is from the
17	group consisting of hydrochloric acid, meta-phosphoric acid, poly-phosphoric acid, bases
18	from metal alkoxides and Phosphoric acid, and combinations thereof.
,0	and the solute compound
19	(First Amended) 97. The process of claim 72 wherein the solute compound
20	comprises functional groups selected from the group consisting of R-Xa-Xb <sub>3</sub> , R3-Xa, Xb, R2-
21	Xa-Xb, R4-Xa, and XaR3 and combinations thereof wherein R is the carbon compound, Xa

1	is the trivalent, tetravalent or pentavalent atom and Xb is a halogen or alkoxy or hydroxyl
2	group.
3	(First Amended) 106. A process for treating wood cellulose having a plurality
4	of hydroxyl groups comprising the steps of:
5	providing a solution comprised of a non-water-based hydrophilic
6	organic solvent and a solute having a plurality of monomers comprising an atom selected
7	from the group consisting of tri-valent, tetravalent and pentavalent atoms and
8	combinations thereof, wherein said atom is bonded to a functional group consisting of a
9	halogen atom, [or a functional group selected from the group consisting of] a hydroxyl
10	group, alkoxy group, phenoxy group, benzyloxy group and an aryloxy group having a
11	polycyclic aromatic ring or combinations thereof,
12	applying said solution to the wood cellulose; and simultaneously
13	diffusing said solution within said wood and
14	reacting said solute to form covalent bonds, and
15	forming a matrix structure comprising reacted monomers and wood
16	cellulose.
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